

In Re. Patent Appln. of Chen, T. *et al.*
Serial No. 10/529,012

Supplemental Reply to the Official Action of January 26, 2006
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Amendments to the Claims

I. Amendments

Please amend the claims to read as indicated below.

II. The Claims of the Application

Claim 1. **[Previously Presented]** An isolated polymer comprising chitosan bound to residues of two or more polypeptides of different types, wherein at least one of the residues comprises a tyrosine residue.

Claims 2-20. **[Cancelled]**

Claim 21. **[Currently Amended]** A method of augmenting tissue of a patient, comprising:
(A) administering to a patient in need of tissue augmentation: (i) a first amount of a two or more polypeptides of different types, wherein at least one of said polypeptides comprises comprising a residue selected from a glutamine residue and a tyrosine residue, (ii) optionally an second amount of a polysaccharide chitosan, and (iii) an enzyme capable of inducing a reaction selected from the group consisting of cross-linking the polysaccharide with the polypeptide, grafting the polypeptide to the polysaccharide, and cross-linking the polypeptide a tyrosinase enzyme; and
(B) permitting said tyrosinase enzyme to form a polymer comprising chitosan bound to residues of said polypeptides; wherein said polymer augments the tissue of said patient.

Claim 22. **[Previously Presented]** The method of claim 21, wherein the patient is a human.

Claims 23-26. **[Cancelled]**

Claim 28. **[Currently Amended]** The method of claim ~~27~~ **21**, wherein ne of said the polypeptides comprises gelatin[[e]], ~~and the polysaccharide comprises chitosan.~~

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Claims 29-30. [Cancelled]

Claim 31. [Previously Presented] A method of dressing a wounded surface area of a patient, comprising:

- (A) dressing a wounded surface area of a patient in need of a wound dressing with: (i) a first amount of a two or more polypeptides of different types, wherein at least one of said polypeptides comprises comprising a residue selected from a glutamine residue and a tyrosine residue, (ii) optionally an second amount of a polysaccharide chitosan, and (iii) an enzyme capable of inducing a reaction selected from the group consisting of cross-linking the polysaccharide with the polypeptide, grafting the polypeptide to the polysaccharide, and cross-linking the polypeptide a tyrosinase enzyme; and
- (B) permitting said tyrosinase enzyme to form a polymer comprising chitosan bound to residues of said polypeptides; wherein said polymer dresses the wounded surface of said patient.

Claim 32. [Previously Presented] The method of claim 31, wherein the wound comprises a burn.

Claim 33. [Previously Presented] The method of claim 31, wherein the patient is a human.

Claims 34-38. [Cancelled]

Claim 39. [Currently Amended] The method of claim ~~38~~ 31, wherein one of said the polypeptides comprises gelatin[[e]], ~~and the polysaccharide comprises~~ chitosan.

Claims 40-41. [Cancelled]

Claim 42. [New] A method of forming a polymer of chitosan and two or more polypeptides of different types, wherein at least one of said polypeptides comprises a tyrosine

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residue, wherein said method comprises incubating amounts of said chitosan and said polypeptides together in the presence of a tyrosinase enzyme under conditions sufficient to bind said chitosan to said polypeptides.

Claim 43. [New] The method of claim 42, wherein one of said polypeptides comprises gelatin.